
Curriculum Vitae

Pierrick Bourrat

AOS: Philosophy of biology,
Philosophy of science

AOC: Philosophy of cognitive sciences,
Philosophy of psychiatry
Evolutionary biology
Evolutionary psychology

Department of Philosophy
University of Sydney
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Current Employment

2015-present: Postdoctoral Research Associate and Associated Lecturer, University of Sydney

Education

2015: PhD in philosophy (University of Sydney, Australia).

2009: MA in Philosophy of Science (University of Paris 1, 4 & 7 and the École Normale Supérieure de Paris)

2008: MSc in Evolutionary Biology & Ecology (University of Montpellier, France)

2006: BA in Biology (University Blaise Pascal, Clermont-Ferrand, France)

Visiting student

- Jan-Feb 2014: University of Auckland, New Zealand (advisors: Quentin Atkinson, Russell Gray)
- Jan-Feb 2014: Massey University, Auckland, New Zealand (advisors: Paul Rainey, Katrin Hammerschmidt)
- Nov-Dec 2012: City University of New-York (advisor: Peter Godfrey-Smith)
- Nov-Dec 2011: Australian National University

Language skills

- French: mother tongue
- English: fluent

Computer skills

- NetLogo, SPSS, R (basics)

Publications

Peer-reviewed journal articles

- **Bourrat P.** (in press) "Distinguishing natural selection from other evolutionary processes in the evolution of altruism." *Biological Theory*
- **Bourrat P.** (2015) "Levels, Time and Fitness in Evolutionary Transitions in Individuality." *Philosophy and Theory in Biology*, 7
- **Bourrat P.** (2015) "Levels of selection are artefacts of different temporal fitness measures." *Ratio*, 28(1): 40-50

- **Bourrat P.** (in press) “How to read "heritability" in the recipe approach to natural selection.” *British Journal for the Philosophy of Science*
- **Bourrat P.** (2014) “From survivors to replicators: Evolution by natural selection revisited.” *Biology and Philosophy*, 29(4), 517-538
- Atkinson Q.D.*, **Bourrat P.*** (2011) “Beliefs about God, the afterlife and morality support the role of supernatural policing in human cooperation.” *Evolution and Human Behavior*, 32(1): 41-49 (* Equally first authors)
- Viciana H., **Bourrat P.** (2011) “Is God an adaptation? Review of Robert Wright's *The Evolution of God*, Little Brown, 2009.” *Philosophia*, 39(2): 397-408
- **Bourrat P.**, Atkinson Q.D., Dunbar R.I.M. (2011) “Supernatural punishment and individual social compliance across cultures.” *Religion, Brain & Behavior*, 1(2): 119-134
- **Bourrat P.**, Baumard N., McKay R. (2011). “Surveillance Cues Enhance Moral Condemnation.” *Evolutionary Psychology*, 9(2): 193-199

Book chapters

- **Bourrat P.**, Viciana H. (in press). “Supernatural Beliefs and the Evolution of Cooperation” in in Liddle and Shackelford (eds.) *The Oxford Handbook of Evolutionary Perspectives on Religion*. Oxford University Press
- **Bourrat P.** (2015). “Origins and evolution of religion from a Darwinian point of view: synthesis of different theories” in T. Heams, P. Huneman, G. Lecointre & M. Silberstein (eds.) *Handbook of evolutionary thinking in the sciences*. Springer (pp 761-779)
- Duncan M.*, **Bourrat P.***, DeBerardinis J. *, O’Malley M.A. (2013) “Small things, big consequences: microbiological perspectives on biology”. In K. Kampourakis (eds.) *Philosophical Issues in Biology Education*. Springer (pp 373–394) (* Equally first authors)
- **Bourrat P.** (2011) “L’évolution de la religion d’un point de vue darwinien : synthèse des différentes théories” in T. Heams, P. Huneman, G. Lecointre & M. Silberstein (eds.) *Les mondes darwiniens. L’évolution de l’évolution*, Editions Materiologiques (pp 1225-1258)

Others

- **Bourrat P.** (2013) “Testing more specific hypotheses and going beyond correlations in the origins and evolution of religious beliefs”. Comment on Ara Norenzayan's Book "Big Gods: How Religion Transformed Cooperation and Conflict". *International Cognition and Culture Institute*

Presentations

Invited

- **Bourrat, P.**, “Two kinds of drift: deterministic and probabilistic drift” (S-ANU, Bundanoon, Australia, November 2014)
- **Bourrat, P.**, “Reconceptualising Evolution by Natural Selection” (Work in Progress seminar, University of Sydney, September 2014)
- **Bourrat, P.**, “A superior multilevel causal decomposition to contextual and neighbour partitionings” (S-ANU, Sydney, May 2014)
- **Bourrat, P.**, “Distinguishing Natural Selection from Reproduction and Transmission” (APPC, Sydney, April 2014)
- **Bourrat, P.** “Levels, time and fitness in Evolutionary transitions in individuality” (PBDB6, Moruya Heads, Australia, August 2012)
- **Bourrat, P.** “Evolution by Natural Selection and the problem of heritability” (AAP conference, Woollongong, Australia, July 2012)
- **Bourrat, P.** “Natural selection and the problem of heritability” (IHPST, Paris, January 2012)
- Atkinson, Q. D., **Bourrat, P.**, and Whitehouse, H. “Cross-cultural variation in religious belief and practice.” *Cognition, Religion and Theology project conference* (Merton College, Oxford, 27th June – 1st July, 2010)

- **Bourrat P.** “Naturaliser la religion à l’aide de théories Darwiniennes : quelques enjeux philosophiques majeurs” (“Naturalizing religion with Darwinian theories: some major philosophical issues”), *Workshop: New paradigms in ecology* (Cargèse, France, March 2009)

Referred

- **Bourrat, P.**, “Are reproduction and inheritance necessary conditions for, or products of, evolution by natural selection?” (ISHPSSB, organised session “Rethinking Reproduction”, Montréal, July 2015)
- Lu, Qiaoying, **Bourrat, P.**, “The Evolutionary Gene and the “Extended Evolutionary Synthesis”” (ISHPSSB, Montréal, July 2015)
- **Bourrat, P.**, “Endogenizing Reproduction and Inheritance: An Agent Based Modeling Approach” (Agent-Based Modeling in Philosophy, Munich, 11-13th December 2014)
- **Bourrat, P.**, Lynch K., “Heritability and the concepts of “gene” and “environment” (AAP, Canberra, July 2014)
- **Bourrat, P.**, Lu, Qiaoying “Questioning the Role of Epigenetic Inheritance in Evolutionary Theory” (MuST, Sydney, March 2014)
- **Bourrat, P.** “Revisiting fitness: Trait-based Fitness” (ISHPSSB, Montpellier, France, July 2013)
- **Bourrat, P.** “The role of heredity and reproduction in evolution by natural selection” (AAHPSSS, Sydney, September 2012)
- **Bourrat, P.** “Time and Fitness in Evolutionary Transitions in Individuality” (PSA conference, San Diego, California, November 2012)
- **Bourrat P.** “La théorie du signal coûteux appliquée à la religion : Difficultés conceptuelles“ (“Costly Signaling Applied to Religion: Conceptual Difficulties”), *3rd Congress of the Society of Philosophy of Science* (Paris, November 2009)
- Viciano H., **Bourrat P.** “The evolution of cultural cognition and the Baldwin effect: which conditions are essential for categorizing effects?”, *Cognitio 2009* (Montreal, June 2009)

Posters

(* peer-reviewed)

- ***Bourrat P.**, Atkinson Q.D. “Supernatural Policing and Human Cooperation”, *20th International Association for the History of Religions Quinquennial World Congress* (Toronto, August 2010)
- ***Bourrat P.**, Atkinson Q.D. “Individuals’ beliefs about God and the Afterlife support the importance of supernatural punishment in human cooperation”, *European Human Behavior & Evolution Association conference 2010* (Wroclaw, March 2010)
- **Bourrat P.** “Testing implicit monitoring hypothesis with supernatural agents”, *Virtual Poster Session of the CRT project* (Oxford, November 2009)
- **Bourrat P.** “Qu’est-ce qu’est vraiment la sélection de groupe aujourd’hui” (“What is group selection nowadays”), *Darwin: entre sciences et humanités* (Paris, April 2009)
- ***Bourrat P.**, Tofalvy T., Viciano H. “Adaptive models of religious forms: framing the controversy on cultural group selection”, *Academy of Sciences, New York. Values and Empathy across Social Barriers: A Neurocognitive Approach to Fairness* (Barcelona, November 2008)

Teaching Experience

Course Coordinator

- 2015: HPSC2101 & HPSC2901 “What is this Thing Called Science” (Introduction to philosophy of science, approx. 250 students, University of Sydney)

Tutor

- 2015: HPSC2901 “What is this Thing Called Science”
- 2014: PHIL2627 “Philosophy and Psychiatry” (University of Sydney)
- 2012: PHIL2627 “Philosophy and Psychiatry” (University of Sydney)

Professional Experience

Past employments

- Oct. 2014-Mar. 2015: Administrative assistant for the Center for Time, University of Sydney
- Sep.-Nov. 2014: Casual Research Assistant for Prof. Paul Griffiths
- 2014: Translator from French to English of historical and academic works for Prof. Alan Chalmers, University of Sydney
- 2013: Translator from French to English of historical and academic works for Prof. Alan Chalmers, University of Sydney
- 2013: Casual Research Assistant for Assoc. Prof. Kristie Miller, University of Sydney: Data Entry
- 2012: Casual Research Assistant: Creation and Design of the academic website of Prof. Paul Griffiths, University of Sydney: <http://paulgriffiths.representinggenes.org/wordpress/>
- 2012: Casual Research Assistant for Prof. Paul Griffiths, University of Sydney
- October 2009-December 2010: Research assistantship at the Institute of Cognitive and Evolutionary Anthropology, University of Oxford

Reviewer for:

- The National Science Foundation (Science, Technology and Society Program)
- *Journal of Personality and Social Psychology: Attitudes and Social Cognition*
- *Review of Philosophy and Psychology* (x2)
- *Biological Journal of the Linnean Society*
- *Philosophy of Science* (x2)
- *Biology & Philosophy* (x2)
- *Kairos* (x2)
- *Evolution and Human Behavior* (x2)
- *International Studies in the Philosophy of Science*
- *Biological reviews*

Workshop/conference organisation:

- 2015: Organisation of the workshop on the modelling of non-paradigmatic evolutionary processes, Sydney, Charles Perkins Center, 14-15th of May 2015
- 2014: Organisation of the Sydney-Australian National University (S-ANU) workshop on philosophy of biology, Sydney, Australia
- 2013: Organisation of a publication course for postgraduate students in Philosophy
- 2012: Organisation of the Sydney-Australian National University (S-ANU) workshop on philosophy of biology, Pearl Beach, NSW, Australia

Participation in workshops and summer schools:

- Summer School on Evolutionary Theory (Lisbon, July 2013)
- Summer institute in Cognitive sciences: The Origin of Language (Montréal, June 2010)
- Summer Workshop: Cognition, Religion and Theology (Oxford, August 2009)
- Workshop: New paradigms in Ecology (Cargèse, France, March 2009)

Grants/Awards

- 2009-2010: Religion, Cognition and Theology Small Grant (University of Oxford & Templeton Foundation). Principal investigator for the project: "Testing the Fear of Supernatural Punishment Hypothesis" (£ 13690)
- 2011-2014: University of Sydney International PhD Scholarship (USydis) (approx. AU\$ 200 000 for tuitions fees and maintenance scholarship)

- 2011-2014: Top-up Scholarship, Australian Research Council's Discovery Projects funding scheme DP0878650 (AU\$ 17500)
- 2011: Lucy Firth publication prize 2011 semester 2 (Uni. of Sydney)
- 2012: Lucy Firth publication prize 2012 semester 1 (Uni. of Sydney)
- 2012: Postgraduate Research Support grant 2012 (Uni. of Sydney, SOPHI) (AU\$ 3000)
- 2012: Doctoral travel grant 2013 (Uni. of Sydney, Faculty of Arts) (AU\$ 1650)
- 2012: Lucy Firth publication prize 2012 semester 2 (Uni. of Sydney)
- 2013: Postgraduate Research Support grant 2013 (Uni. of Sydney, SOPHI) (AU\$ 2700)
- 2013: Travel Scholarship 2013 International Society for History, Philosophy and Social Studies of Biology (ISHPSSB) (US\$ 750)
- 2013: Lucy Firth publication prize 2013 semester 1 (Uni. of Sydney)
- 2013: Lucy Firth publication prize 2013 semester 2 (Uni. of Sydney)
- 2014: Lucy Firth publication prize 2014 semester 1 (Uni. of Sydney)
- 2014: Postgraduate Research Support grant 2014 (Uni. of Sydney, SOPHI)
- 2014: Lucy Firth publication prize 2014 semester 2 (Uni. of Sydney)
- 2015: Conference Travel Grant (Uni. of Sydney , SOPHI) (AU\$ 2990)

Memberships

- Society of Philosophy of Science (France)
- European Human Behaviour & Evolution Association
- International Association of the Cognitive Science of Religion
- Philosophy of Science Association
- International Society for History, Philosophy, and Social Studies of Biology
- Australasian Association of Philosophy

References

Upon request